

Photometric Report // SCDLGOLD

9W 2000-3000K

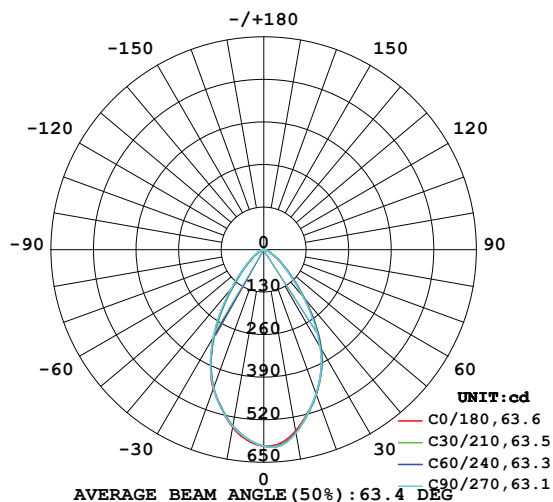


LUMINAIRE PHOTOMETRIC TEST REPORT

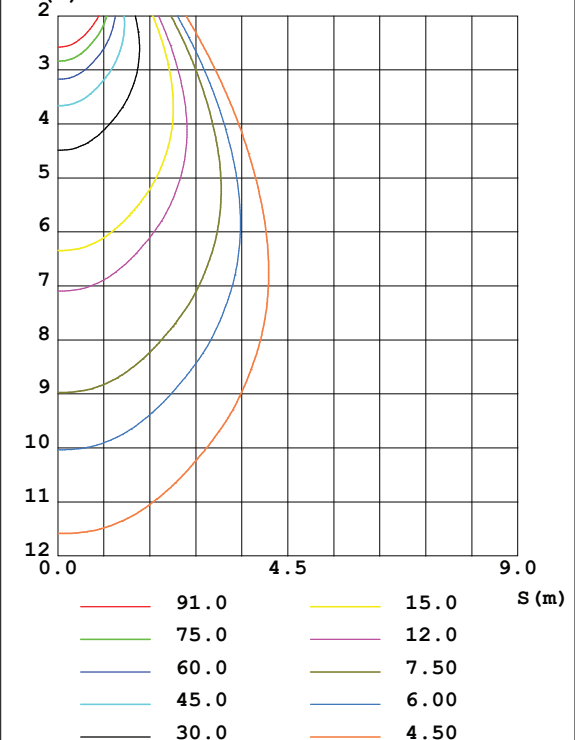
NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KY	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.18 lm/W			
MODEL	SCDLGOLD	I _{max} (cd)	604.2	S/MH (C0/180)	0.90
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.90
RATED VOLTAGE (V)		TOTAL FLUX (lm)	692.37	η UP, DN (C0-180)	0.0, 51.9
NOMINAL FLUX (lm)	692.374	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 20.0DEG
Operators: RD
Test Date: 01 April 2020

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 4.530m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	561.8	567.6	568.9	560.7	551.3	546.7	547.8	554.5	0- 10	55.26	55.26	7.98, 7.98
20	469.9	469.9	468.2	458.5	452.3	448.6	450.4	459.5	10- 20	143.0	198.3	28.6, 28.6
30	349.5	352.5	345.3	324.1	306.5	303.8	309.5	328.7	20- 30	182.0	380.3	54.9, 54.9
40	191.3	193.0	184.2	162.7	148.0	145.4	154.5	174.2	30- 40	153.1	533.4	77, 77
50	82.97	84.36	79.11	68.56	60.12	59.93	65.09	75.29	40- 50	87.09	620.5	89.6, 89.6
60	34.34	35.26	33.10	27.94	23.92	24.19	26.71	30.55	50- 60	43.47	664.0	95.9, 95.9
70	14.56	13.97	13.01	12.56	12.70	12.21	12.68	14.06	60- 70	19.13	683.1	98.7, 98.7
80	4.342	2.494	1.573	2.268	3.685	2.167	2.459	4.228	70- 80	8.024	691.1	99.8, 99.8
90	0.3493	0.4033	0.4250	0.4125	0.9158	0.9035	0.8943	0.8616	80- 90	1.254	692.4	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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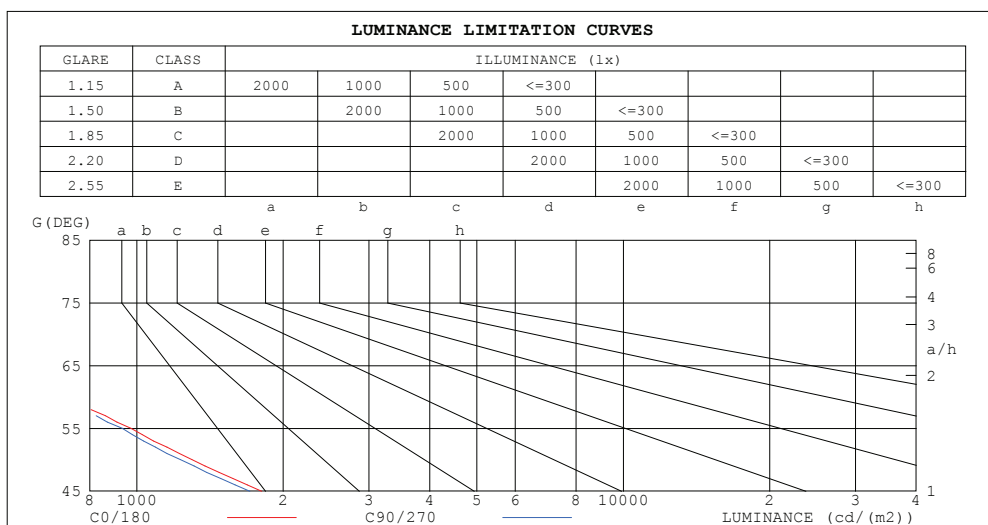
Photometric Report // SCDLGOLD

9W 2000-3000K



LUMINANCE LIMITATION CURVES

NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KY	SUR.:	Shielding Angle:



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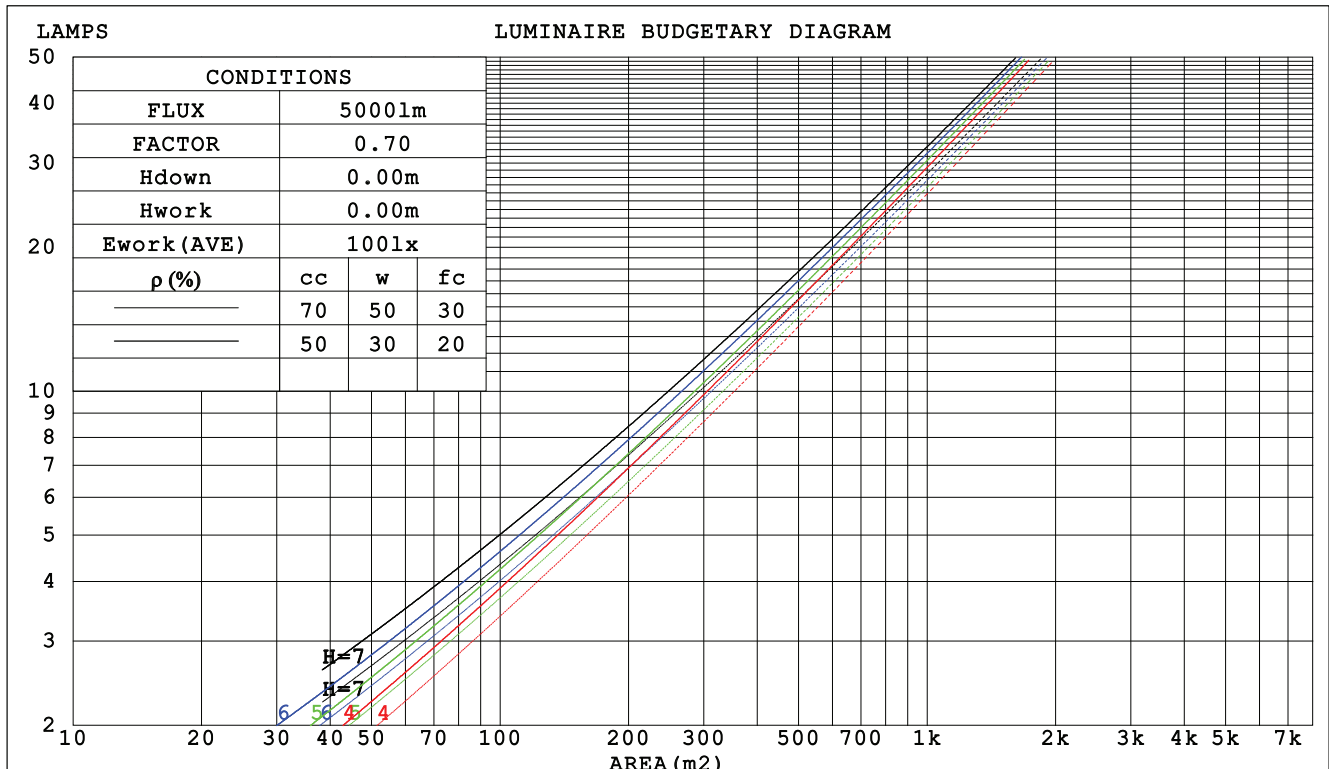
9W 2000-3000K



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KY	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91
2.0	.00	.95	.91	.98	.94	.90	.95	.91	.88	.92	.89	.86	.89	.86	.84	.82
3.0	.91	.86	.81	.90	.85	.80	.87	.83	.79	.85	.81	.78	.82	.79	.76	.75
4.0	.84	.78	.73	.83	.77	.72	.81	.75	.71	.79	.74	.70	.77	.73	.70	.68
5.0	.78	.71	.66	.77	.70	.65	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62
6.0	.72	.65	.60	.71	.65	.60	.69	.64	.59	.68	.63	.59	.67	.62	.58	.57
7.0	.67	.60	.55	.66	.60	.55	.65	.59	.55	.63	.58	.54	.62	.58	.54	.52
8.0	.62	.55	.51	.62	.55	.51	.60	.55	.50	.59	.54	.50	.58	.54	.50	.48
9.0	.58	.52	.47	.58	.51	.47	.57	.51	.47	.56	.50	.47	.55	.50	.46	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.43	.52	.47	.43	.42



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9W 2000-3000K



WEC AND CCEC

NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KY	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.209	.119	.038	.203	.116	.037	.190	.109	.035	.178	.103	.033	.167	.097	.031		
2.0	.202	.111	.034	.197	.108	.033	.186	.103	.032	.176	.099	.031	.166	.094	.030		
3.0	.193	.103	.031	.188	.101	.030	.178	.097	.029	.170	.093	.028	.161	.089	.028		
4.0	.183	.095	.028	.178	.093	.028	.170	.090	.027	.162	.087	.026	.155	.084	.026		
5.0	.173	.088	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024	.149	.080	.024		
6.0	.164	.082	.024	.161	.081	.023	.154	.079	.023	.148	.077	.023	.143	.075	.022		
7.0	.156	.077	.022	.153	.076	.022	.147	.074	.021	.142	.073	.021	.137	.071	.021		
8.0	.148	.072	.020	.145	.072	.020	.140	.070	.020	.135	.069	.020	.131	.067	.020		
9.0	.141	.068	.019	.138	.067	.019	.134	.066	.019	.130	.065	.019	.125	.064	.018		
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.017		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.173	.157	.142	.148	.135	.122	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.038	.017	.015	.013	
3.0	.150	.114	.085	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.133	.088	.056	.114	.076	.048	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.046	.108	.069	.040	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003	

C Range: 0 - 360DEG
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γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 4.530m [K=1.0000]
Remarks:

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9W 2000-3000K



UGR(Unified Glare Rating) Table

NAME: SCDLGOLD - 9W - 2000-3000K					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: KY					SUR.:					Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions					Viewed crosswise					Viewed endwise				
x = 2H y = 2H					13.0	14.1	13.2	14.3	14.5	12.8	14.0	13.1	14.1	14.3
3H					13.1	14.2	13.4	14.4	14.6	13.0	14.0	13.2	14.2	14.4
4H					13.2	14.2	13.5	14.4	14.7	12.9	13.9	13.2	14.1	14.4
6H					13.2	14.1	13.5	14.4	14.6	12.9	13.8	13.2	14.0	14.3
8H					13.2	14.1	13.5	14.3	14.6	12.8	13.7	13.1	14.0	14.2
12H					13.1	14.0	13.5	14.3	14.6	12.8	13.6	13.1	13.9	14.2
4H 2H					13.0	14.0	13.3	14.2	14.4	12.8	13.8	13.1	14.0	14.3
3H					13.2	14.1	13.6	14.4	14.6	13.0	13.9	13.4	14.2	14.4
4H					13.4	14.1	13.7	14.4	14.8	13.0	13.8	13.4	14.1	14.4
6H					13.4	14.1	13.8	14.4	14.8	13.0	13.6	13.4	14.0	14.3
8H					13.4	14.0	13.8	14.4	14.7	12.9	13.6	13.3	13.9	14.3
12H					13.4	13.9	13.8	14.3	14.7	12.9	13.5	13.3	13.8	14.2
8H 4H					13.3	13.9	13.7	14.3	14.7	13.0	13.6	13.4	14.0	14.3
6H					13.4	13.9	13.8	14.3	14.7	12.9	13.4	13.4	13.8	14.2
8H					13.3	13.8	13.8	14.2	14.7	12.9	13.3	13.3	13.7	14.2
12H					13.3	13.7	13.8	14.1	14.6	12.8	13.2	13.3	13.7	14.1
12H 4H					13.3	13.8	13.7	14.2	14.6	12.9	13.5	13.4	13.9	14.3
6H					13.3	13.8	13.8	14.2	14.6	12.9	13.3	13.3	13.8	14.2
8H					13.3	13.7	13.8	14.1	14.6	12.8	13.2	13.3	13.7	14.1
Variations with the observer position at spacings:														
S = 1.0H					+ 1.3 / - 2.0					+ 1.4 / - 2.4				
1.5H					+ 1.7 / - 1.4					+ 1.7 / - 1.5				
2.0H					+ 2.6 / - 2.6					+ 2.7 / - 3.0				

CIE Pub.117, 692.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.1 m2

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 4.530m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
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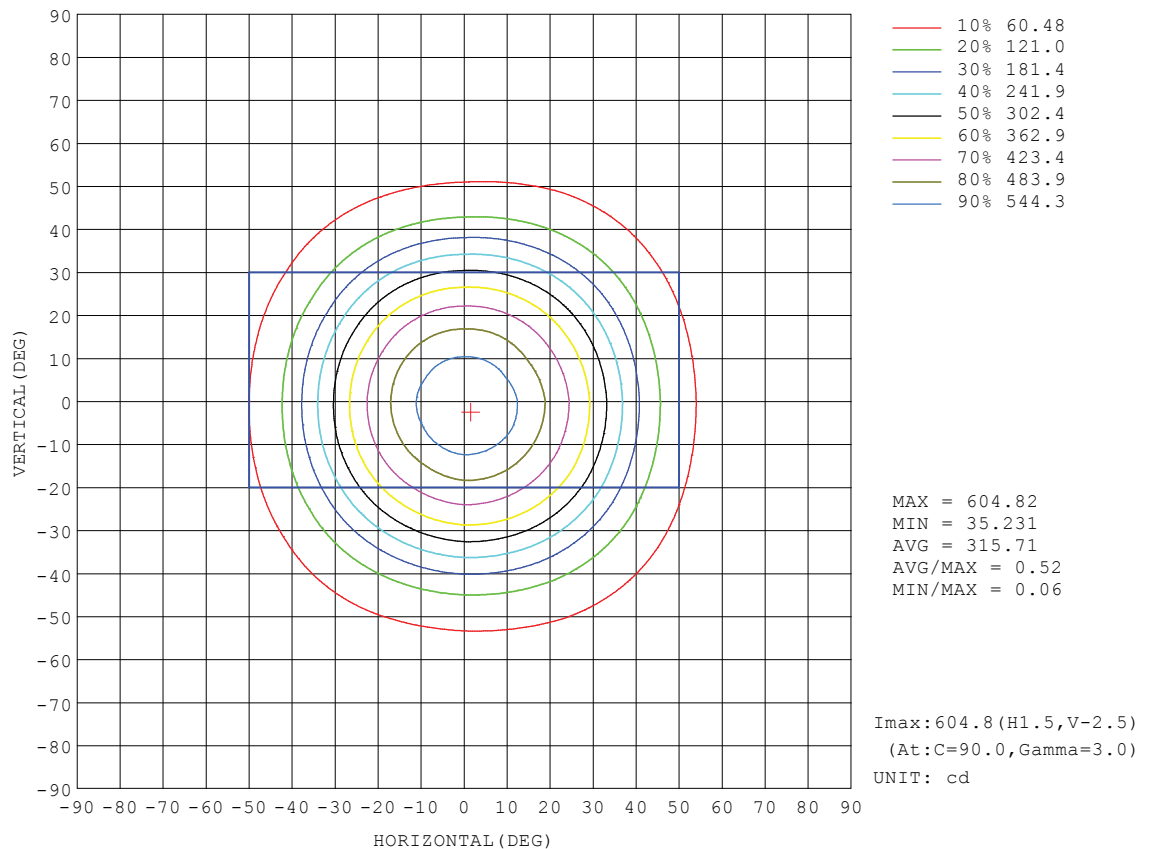
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	69	64	76	69	64	75	68	64	59
0.80	86	78	73	85	78	73	84	77	73	68
1.00	92	85	80	91	84	80	89	85	79	74
1.25	97	91	86	96	90	86	94	89	85	80
1.50	101	95	90	99	94	90	97	92	89	83
2.00	105	100	96	103	99	95	100	96	93	87
2.50	107	102	99	105	101	98	102	99	96	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	110	107	104	106	103	101	94
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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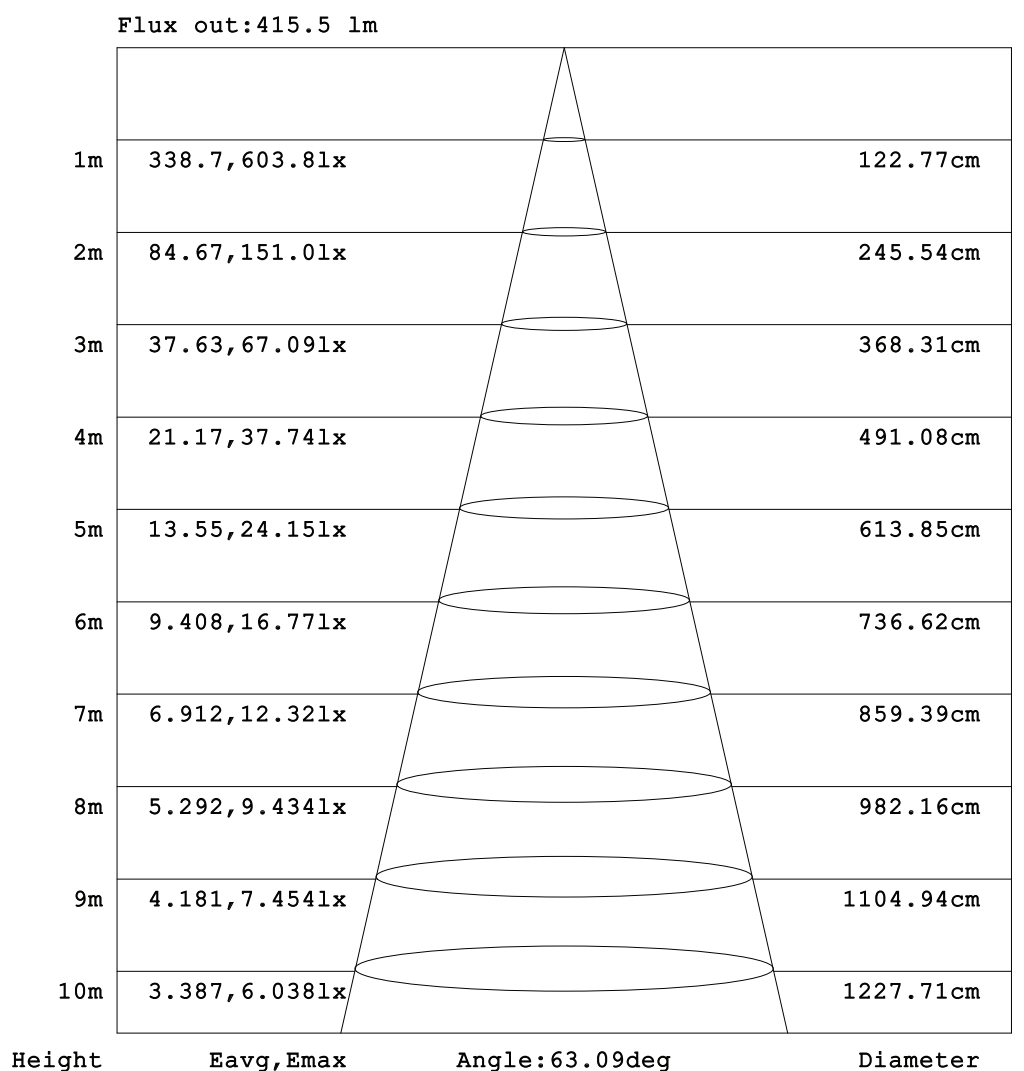


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AAI Figure

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Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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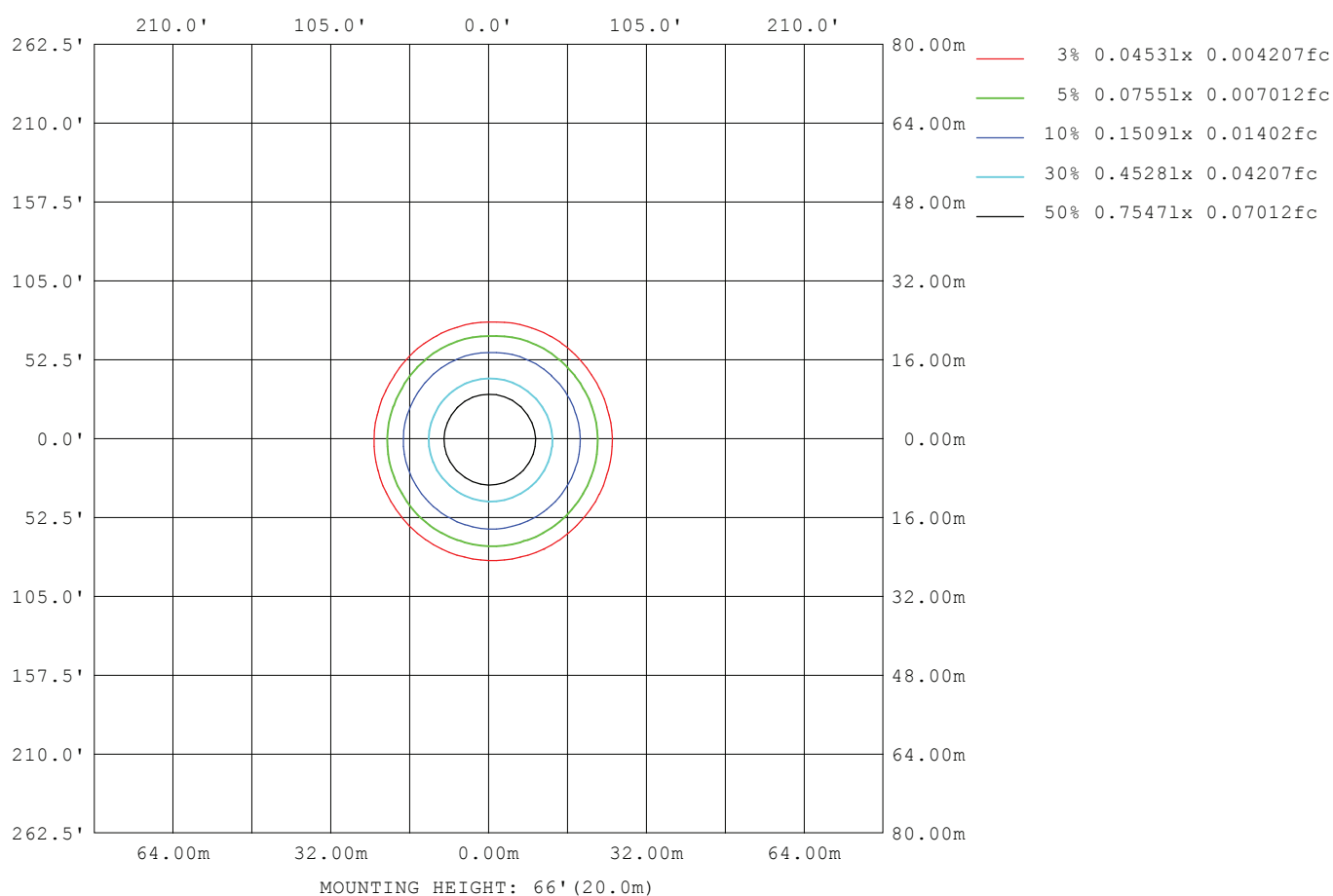
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9W 2000-3000K



ISOLUX DIAGRAM

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9W 2000-3000K



LED Avg.L Report

NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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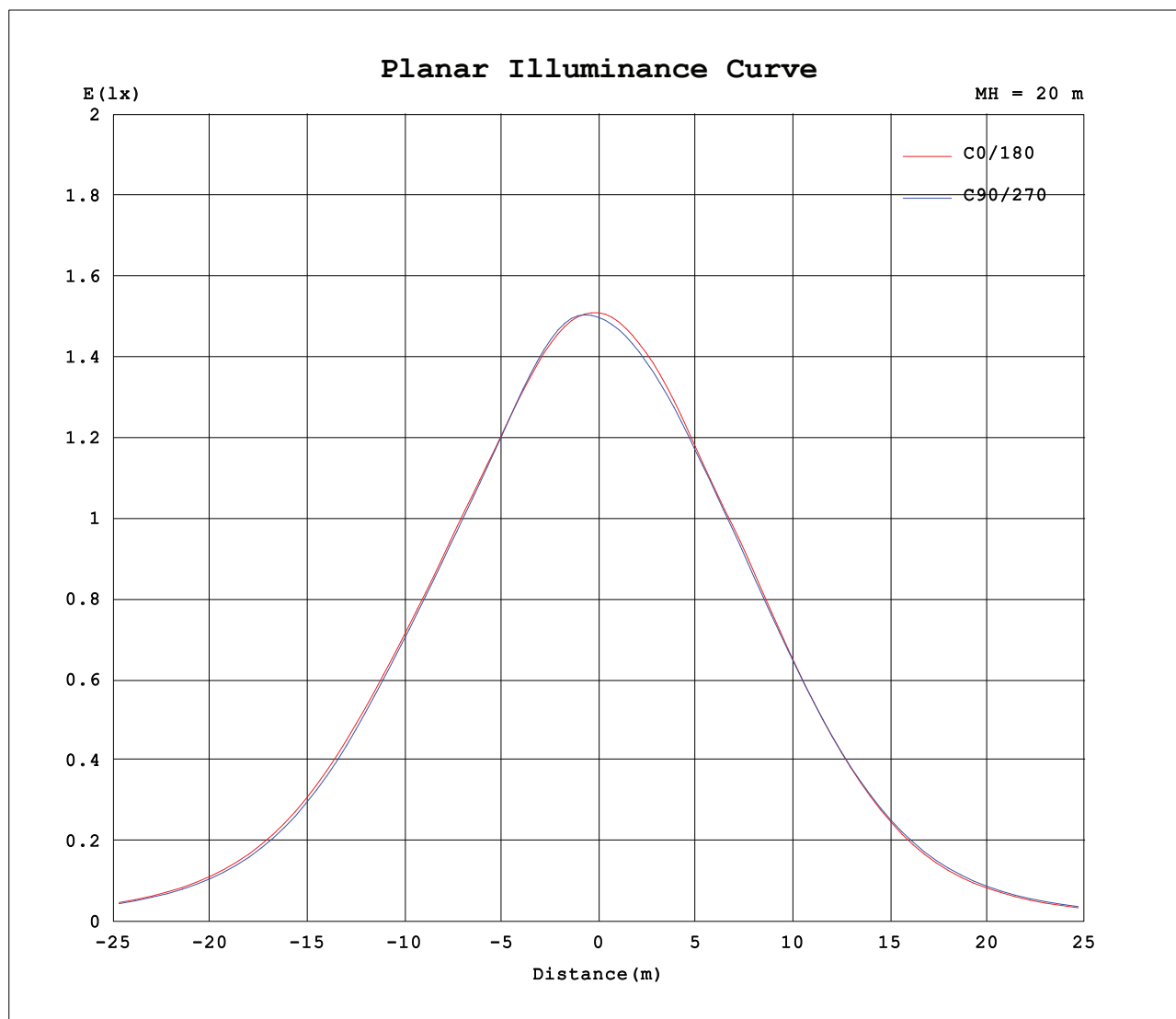
AvgL	cd/m2
L_0~180 (65) av	434
L_0~180 (75) av	347
L_0~180 (85) av	159
L_90~270 (65) av	436
L_90~270 (75) av	234
L_90~270 (85) av	74
L_45 (65) av	434
L_45 (75) av	283
L_45 (85) av	80

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: SCDLGOLD - 9W - 2000-3000K	TYPE:	WEIGHT:
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MFR.: KY	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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